```
(FILE 'HOME' ENTERED AT 19:12:36 ON 19 SEP 2002)
     FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 19:12:45 ON 19 SEP
     2002
L1
          23794 S CARDIOMYOCYTE
L2
         276418 S CORONARY (W) (ARTERY OR SINUS)
L3
           6372 S AAV OR ADENO-ASSOCIATED (3A) VECTOR
L4
              5 S L1 AND L2 AND L3
              3 DUP REM L4 (2 DUPLICATES REMOVED)
L5
=> d bib ab 1-3 15
L5
     ANSWER 1 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN
     2002:263208 BIOSIS
· DN
     PREV200200263208
TI
     Localized delivery of adeno-associated virus
     vector expressing human extracellular superoxide dismutase gene
     confers long term protection against ischemia-reperfusion injury to the
     rat heart.
ΑU
     Agrawal, Reitu S. (1); Muangman, Suphichaya; Melo, Luis G.; Layne,
Matthew
     D.; Lopez-Ilasaca, Marco; Perrella, Mark A.; Lee, Richard T.; Zhang,
     Lunan; Dzau, Victor J.
CS
     (1) Brigham and Women's Hosp, Boston, MA USA
SO
     Circulation, (October 23, 2001) Vol. 104, No. 17 Supplement, pp. II.36.
     http://circ.ahajournals.org/. print.
     Meeting Info.: Scientific Sessions 2001 of the American Heart Association
     Anaheim, California, USA November 11-14, 2001
     ISSN: 0009-7322.
DT
     Conference
LA
     English
L5
     ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN
     2000:456818 CAPLUS
DN
     133:53712
TI
     Efficient and stable in vivo gene transfer to cardiomyocytes
     using recombinant adeno-associated virus
     vectors
IN
     Leiden, Jeffrey M.; Svensson, Eric
PΑ
     Arch Development Corp., USA
SO
     PCT Int. Appl., 20 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                      KIND DATE
                                            APPLICATION NO. DATE
                      _ _ _ _
                             -----
PΙ
     WO 2000038518
                      A1
                             20000706
                                           WO 1999-US31093 19991228
            AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
             MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
             SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
```

```
EP 1139751
                          20011010
                                          EP 1999-967703
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
PRAI US 1998-113923P
                      P
                            19981228
     WO 1999-US31093
                       W
                            19991228
AΒ
     Recombinant adeno-assocd. virus (rAAV) vectors
     are used to transduce cardiomyocytes in vivo by infusing the
     rAAV into a coronary artery or coronary
            RAAV infection is not assocd. with detectable myocardial
     inflammation or myocyte necrosis. Thus, rAAV is a useful vector for the
     stable expression of therapeutic genes in the myocardium and can be used
     to deliver genes for inducing angiogenesis, inhibiting angiogenesis,
     stimulating cell proliferation, inhibiting cell proliferation and/or
     treating or ameliorating other cardiovascular conditions.
              THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 4
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
L5
    ANSWER 3 OF 3
                       MEDLINE
                                                        DUPLICATE 1
AN
     1999110721
                   MEDLINE
DN
     99110721 PubMed ID: 9892583
TΙ
     Efficient and stable transduction of cardiomyocytes after
     intramyocardial injection or intracoronary perfusion with recombinant
     adeno-associated virus vectors.
ΑU
     Svensson E C; Marshall D J; Woodard K; Lin H; Jiang F; Chu L; Leiden J M
    Departments of Medicine and Pathology, University of Chicago, Chicago, IL
CS
     60637, USA.
    AR-42885 (NIAMS)
NC
    DK-48987 (NIDDK)
    HL-54592 (NHLBI)
    CIRCULATION, (1999 Jan 19) 99 (2) 201-5.
SO
     Journal code: 0147763. ISSN: 1524-4539.
CY
    United States
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
     English
FS
     Abridged Index Medicus Journals; Priority Journals
EΜ
     199902
ED
     Entered STN: 19990311
     Last Updated on STN: 20010521
     Entered Medline: 19990223
AΒ
    BACKGROUND: The delivery of recombinant genes to cardiomyocytes
    holds promise for the treatment of a variety of cardiovascular diseases.
     Previous gene transfer approaches that used direct injection of plasmid
    DNA or replication-defective adenovirus vectors have been limited by low
     transduction frequencies and transient transgene expression due to immune
     responses, respectively. In this report, we have tested the feasibility
of
     using intramyocardial injection or intracoronary infusions of recombinant
     adeno-associated virus (rAAV) vectors to
     program transgene expression in murine cardiomyocytes in vivo.
     METHODS AND RESULTS: We constructed an rAAV containing the LacZ gene
under
     the transcriptional control of the cytomegalovirus (CMV) promoter
     (AAVCMV-Lacz). We then injected 1x10(8) infectious units (IU) of this
     virus into the left ventricular myocardium of adult CD-1 mice. Control
    hearts were injected with the AdCMV-LacZ adenovirus vector. Hearts
    harvested 2, 4, and 8 weeks after AAVCMV-LacZ injection demonstrated
     stable beta-galactosidase (beta-gal) expression in large numbers of
     cardiomyocytes without evidence of myocardial inflammation or
     myocyte necrosis. In contrast, the AdCMV-LacZ-injected hearts displayed
     transient beta-gal expression, which was undetectable by 4 weeks after
```

injection. Explanted C57BL/6 mouse hearts were also perfused via the coronary arteries with 1.5x10(9) IU of AAVCMV-LacZ and assayed 2, 4, and 8 weeks later for beta-gal expression. beta-Gal expression was detected in <1% of cardiomyocytes at 2 weeks after perfusion but was detected in up to 50% of cardiomyocytes 4 to 8 weeks after perfusion. CONCLUSIONS: Direct intramyocardial injection or coronary artery perfusion with rAAV vectors can be used to program stable transgene expression in cardiomyocytes in vivo. rAAV appears to represent a useful vector for the delivery of therapeutic genes to the myocardium.

=>

WEST

Freeform Search

Database:	US Patents Full-Text Database US Pre-Grant Publication Full-Text Database JPO Abstracts Database EPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins
Term: Display:	14 and infusi\$ 20 Documents in Display Format: - Starting with Number 1 O Hit List • Hit Count • Side by Side • Image
	Search Clear Help Logout Interrupt Menu Show 8 Numbers Edit 8 Numbers Preferences Cases

Search History

DATE: Thursday, September 19, 2002 Printable Copy Create Case

Set Name Query side by side		Hit Count	Set Name result set
DB=U	VSPT,PGPB; PLUR=YES; OP=AND		
<u>L5</u>	l4 and infusi\$	30	<u>L5</u>
<u>L4</u>	11 and 12 and 13	38	<u>L4</u>
<u>L3</u>	aav or adeno-associated near3 vector	2182	<u>L3</u>
<u>L2</u>	coronary adj (artery or sinus)	12488	<u>L2</u>
L1	cardiomyocyte	530	L1

END OF SEARCH HISTORY

Print

Generate Collection

Search Results - Record(s) 1 through 20 of 30 returned.

1. <u>20020132753</u> . 17 Jan 01. 19 Sep 02. Nucleic acids, proteins, and antibodies. Rosen, Craig A., et al. 514/1; 435/320.1 435/325 435/6 435/69.1 536/23.1 A61K031/00 C12Q001/68 C07H021/02.
☐ 2. <u>20020120103</u> . 27 Jul 01. 29 Aug 02. 17 human secreted proteins. Rosen, Craig A., et al. 530/350; 435/320.1 435/325 435/6 435/69.1 530/388.1 536/23.5 C12Q001/68 C07K014/435 C07H021/04 A61K038/17 C12P021/02 C12N005/06.
3. <u>20020098541</u> . 17 Apr 01. 25 Jul 02. TNFR related gene 12. Ni, Jian, et al. 435/69.1; 435/320.1 435/325 435/6 530/350 536/23.5 C12Q001/68 C07H021/04 C12P021/02 C12N005/06 C07K014/705.
4. <u>20020090673</u> . 17 Jan 01. 11 Jul 02. Nucleic acids, proteins, and antibodies. Rosen, Craig A., et al. 435/69.1; 435/320.1 435/325 435/6 536/23.1 C12Q001/68 C07H021/04 C12P021/02 C12N005/06 C12N015/74.
5. 20020086821. 17 Jan 01. 04 Jul 02. Nucleic acids, proteins, and antibodies. Rosen, Craig A., et al. 514/12; 435/183 435/320.1 435/325 435/69.1 536/23.1 A61K038/17 C07H021/04 C12N009/00 C12P021/02 C12N005/06.
☐ 6. <u>20020077287</u> . 11 May 01. 20 Jun 02. 28 human secreted proteins. Ruben, Steven M., et al. 514/12; 435/183 435/320.1 435/325 435/69.1 530/350 536/23.2 A61K038/17 C07H021/04 C12N009/00 C12P021/02 C12N005/06 C07K014/435.
7. 20020076756. 11 May 01. 20 Jun 02. 28 human secreted proteins. Ruben, Steven M., et al. 435/69.1; 435/320.1 435/325 530/350 536/23.5 C12P021/02 C12N005/06 C07H021/04 C07K014/435.
8. <u>20020076705</u> . 30 Mar 01. 20 Jun 02. 31 human secreted proteins. Ruben, Steven M., et al. 435/6; 435/320.1 435/325 435/69.1 536/23.2 C12Q001/68 C07H021/04 C12N005/06 C12P021/02.
9. <u>20020072102</u> . 16 Mar 01. 13 Jun 02. Disintegrin homologs. Sheppard, Paul O., et al. 435/183; 435/320.1 435/325 435/69.1 C12P021/02 C12N005/06 C12N009/00.
☐ 10. <u>20020068319</u> . 08 Mar 01. 06 Jun 02. 32 human secreted proteins. Ni, Jian, et al. 435/69.1; 435/183 435/325 435/7.1 530/388.1 536/23.5 C12P021/02 C12N005/06 G01N033/53 C07H021/04 C12N009/00.
☐ 11. <u>20020064818</u> . 22 Feb 01. 30 May 02. 52 human secreted proteins. Ni, Jian, et al. 435/69.1; 435/325 435/6 435/7.1 536/23.1 C12P021/02 C12Q001/68 G01N033/53 C07H021/04 C12N005/06.
☐ 12. <u>20020061834</u> . 09 Feb 01. 23 May 02. Human G-protein Chemokine receptor (CCR5) HDGNR10. Rosen, Craig A., et al. 514/1; 435/320.1 435/325 435/69.1 530/350 536/23.5 A61K031/00 C07H021/04 C07K014/705 C12N005/06 C12P021/02.
☐ 13. <u>20020061521</u> . 17 Jan 01. 23 May 02. Nucleic acids, proteins, and antibodies. Rosen, Craig A., et al. 435/6; 435/69.1 514/2 530/300 536/23.1 C12O001/68 C12P021/06 A01N037/18 C07H021/00

A61K038/00.
☐ 14. <u>20020048786</u> . 09 Feb 01. 25 Apr 02. Human G-protein Chemokine Receptor HDGNR10. Rosen, Craig A., et al. 435/69.1; 424/130.1 435/325 435/7.2 514/12 536/23.5 G01N033/53 G01N033/567 A61K038/00 C07H021/04 C12P021/06 A61K039/395 C12N005/02 C12N005/00.
☐ 15. <u>20020028449</u> . 01 Dec 00. 07 Mar 02. 26 Human secreted proteins. Ruben, Steven M., et al. 435/6; 435/183 435/69.1 530/388.1 536/23.1 C12Q001/68 C07H021/02 C07H021/04 C12P021/02 C12N009/00.
☐ 16. <u>20020026040</u> . 16 Jul 01. 28 Feb 02. 49 human secreted proteins. Moore, Paul A., et al. 536/23.1; 435/6 530/300 C12Q001/68 C07H021/02 C07H021/04 C07K002/00 C07K004/00 C07K005/00 C07K007/00 C07K014/00 C07K016/00 C07K017/00 A61K038/00.
☐ 17. <u>20020025553</u> . 01 Dec 00. 28 Feb 02. Transforming growth factor alpha HIII. Wei, Ying-Fei. 435/69.1; 435/325 435/7.1 530/399 536/23.5 C12P021/02 G01N033/53 C07H021/04 C12N005/06 C07K014/61.
☐ 18. 20020019349. 09 Feb 01. 14 Feb 02. Use of relaxin treat diseases related to vasoconstriction. Conrad, Kirk P., et al. 514/12; A61K038/00.
☐ 19. <u>20020012966</u> . 25 Jan 01. 31 Jan 02. 18 Human secreted proteins. Shi, Yanggu, et al. 435/69.1; 435/183 435/325 530/350 536/23.1 C12P021/02 C07H021/04 C12N009/00 C12N005/08.
☐ 20. <u>20010021700</u> . 19 Dec 00. 13 Sep 01. 49 human secreted proteins. Moore, Paul A., et al. 514/44; 435/320.1 435/325 435/69.1 435/69.7 435/7.1 514/12 530/350 530/388.2 536/23.5 A61K048/00 G01N033/53 A61K038/16 C07H021/04.
Generate Collection Print

Terms	Documents
l4 and infusi\$	30

<u>Previous Page</u> <u>Next Page</u>

Generate Collection Print

Search Results - Record(s) 21 through 30 of 30 returned.

21. <u>20010016193</u> . 19 Dec 00. 23 Aug 01. Methods of altering cardiac cell phenotype. Engler, obert L 424/93.21; 435/320.1 A61K048/00.				
22. 6447771. 09 Aug 99; 10 Sep 02. Methods and materials relating to novel CD39-like polypeptides. Ford; John, et al. 424/94.61;. A61K038/47.				
23. <u>6433145</u> . 20 Jan 00; 13 Aug 02. Keratinocyte derived interferon. LaFleur; David W., et al. 330/351; 424/85.4 435/7.1 530/350. C07K017/00 C07K014/00 A61K038/21 C12Q001/68.				
24. <u>6391589</u> . 07 Jan 00; 21 May 02. Human chemokine beta-10 mutant polypeptides. Olsen; Henrik S., et al. 435/69.5; 424/85.1 435/252.3 435/254.11 435/320.1 435/325 435/471 435/71.1 435/71.2 514/12 514/8 530/324 536/23.1 536/23.5. C12N005/10 C12N015/19 C12N015/63 C07K014/52 A61K038/19.				
25. <u>6372473</u> . 04 Oct 99; 16 Apr 02. Tissue plasminogen activator-like protease. Moore; Paul A., ed. 435/212; 435/217 530/327 530/328 530/350 530/827 530/828. C12N009/48 C12N009/68 C07K007/09 C07K007/08 C07K004/12.				
26. <u>6335013</u> . 30 Jun 00; 01 Jan 02. Methods and materials relating to CD39-like polypeptides. Ford; John, et al. 424/94.61; 514/12. A61K038/47.				
☐ 27. 6265199. 09 Jul 99; 24 Jul 01. Disintegrin homologs. Sheppard; Paul O., et al. 435/212; 330/300 530/350. C12N009/48.				
28. <u>6174871</u> . 10 Aug 98; 16 Jan 01. Gene therapies for enhancing cardiac function. Hammond; H. Kirk, et al. 514/44; 424/93.6 435/320.1 536/23.5. A01N043/04 A01N063/00 A61K031/70 C12N015/00 C12N015/09 C12N015/63 C12N015/70 C12N015/74.				
29. 6151525. 02 Sep 98; 21 Nov 00. Method and system for myocardial identifier repair. Soykan; Orhan, et al. 607/50; 607/3. A61N001/08.				
30. <u>6140084</u> . 01 Dec 98; 31 Oct 00. Human thyroid protein zsig45. Deisher; Theresa A., et al. 35/69.4; 435/252.3 435/320.1 435/325 435/360 435/69.1 536/23.1 536/23.5 536/23.51. C12P021/06 C12N015/00 C12N001/20 C07H021/04.				
Generate Collection Print				
Terms Documents				
14 and infusi\$				

Previous Page

Next Page